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MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

QP-375 SERIES

Jameco Part Number 220290 (QP-375-5B)

- .LOW COST, HIGH RELIABILITY
- .105°C OUTPUT CAPACITOR
- .INTERNATIONAL AC INPUT RANGE
- .HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- .SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- .SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED
- .ISOLATE CH3 & CH4 DC OUTPUT
- .MAIN OUTPUT REMOTE SENSE
- .POWER GOOD AND FAIL SIGNAL

MODEL / SPECIFICATION	QP-375-5A				QP-375-5B				QP-375-5C			
	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
DC OUTPUT VOLTAGE	+5V	+12V	12V	12V	+5V	+12V	12V	5V	+5V	+12V	15V	15V
OUTPUT V. TOLERANCE	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
OUTPUT RATED CURRENT	30A	10A	6A	3A	30A	10A	6A	3A	30A	9A	4A	4A
OUTPUT CURRENT RANGE	3.5-40A	0-10A	0-6A	0-3A	3.5-40A	0-10A	0-6A	0-3A	3.5-40A	0-9A	0-4A	0-4A
PEAK CURRENT	40A	16A	6A	3A	40A	16A	6A	3A	40A	16A	4A	4A
RIPPLE & NOISE (p-p)	100mV	150mV	150mV	50mV	100mV	120mV	120mV	50mV	100mV	150mV	150mV	240mV
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%
DC OUTPUT POWER	378W (max.)				357W (max.)				378W (max.)			
EFFICIENCY	77%				77%				77%			
DC VOLTAGE ADJ.	CH1,2,3,4:+10,-5%				CH1,2,3:+10,-5%				CH1,2,3,4:+10,-5%			
INPUT VOLTAGE RANGE	85~264VAC 47~63Hz; 120~370VDC											
AC CURRENT	6A/115V 3A/230V											
POWER FACTOR	PF>0.95/230VAC, PF>0.98/115VAC											
OUTPUT GOOD/INPUT POWER FAIL	10ms/1ms											
INRUSH CURRENT	COLD START 45A											
LEAKAGE CURRENT	<2mA/240VAC											
OVERLOAD PROTECTION	105%~135% TYPE: PULSE BY PULSE RESET: AUTO RECOVERY											
OVER VOLTAGE PROTECTION	CH1:5.75~6.75V TYPE:SHUTDOWN											
OVER TEMP. PROTECTION	80°C~±5°C (TSW1)TYPE:SHUTDOWN RESET:AUTO RECOVERY											
REMOTE CONTROL	RC+/RC-:0~0.8V POWER ON ; 4V~10V POWER OFF											
TEMP. COEFFICIENT	±0.03% / °C (0~50°C)											
SETUP, RISE, HOLD UP TIME	800ms, 50ms, 20ms											
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES											
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC											
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms											
WORKING TEMP., HUMIDITY	-10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH											
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH											
DIMENSION	278*127*63.5mm											
WEIGHT	2.3Kgs											
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED											
EMC STANDARDS	CISPR22(EN55022) CLASS B, EN61000-4-2,3,4,5,6,8,11; ENV50204; EN61000-3-2,3 VERIFICATION											

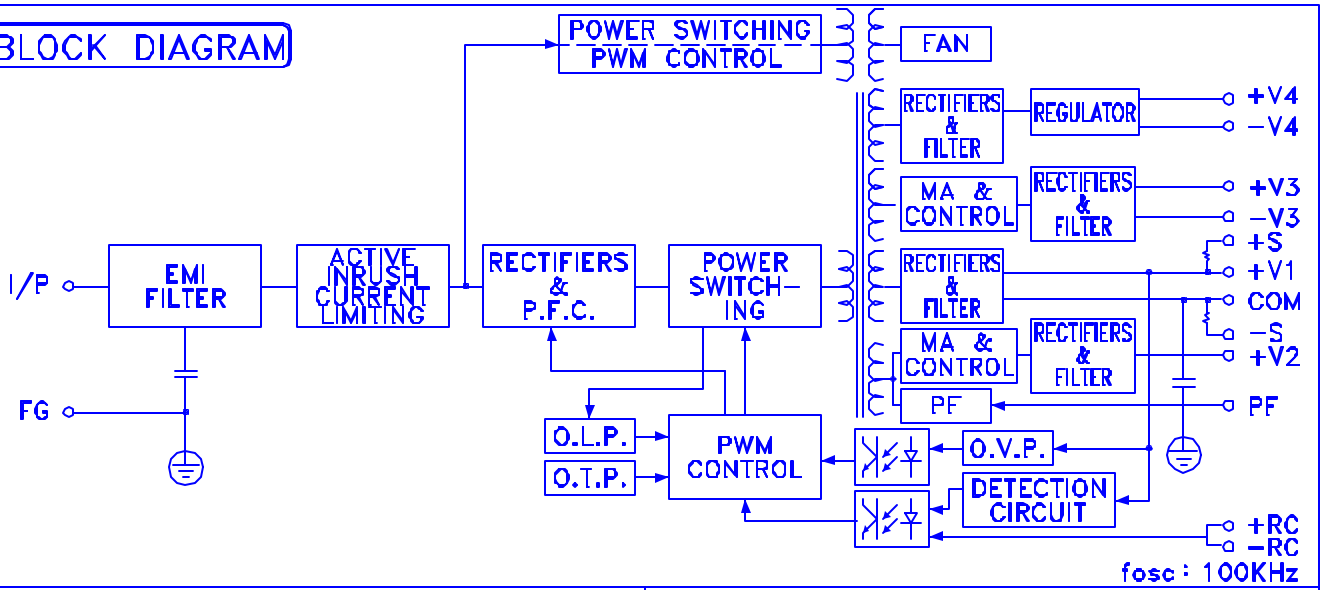
NOTE :

1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2. TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD.
6. PEAK CURRENT CAN NOT EXCEED 60 SEC.
7. EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TATAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.
8. ISOLATED CH3 & CH4 MAYBE SERIES CONNECTED OR CAN BE USED AS POSITIVE OR NEGATIVE OUTPUTS.

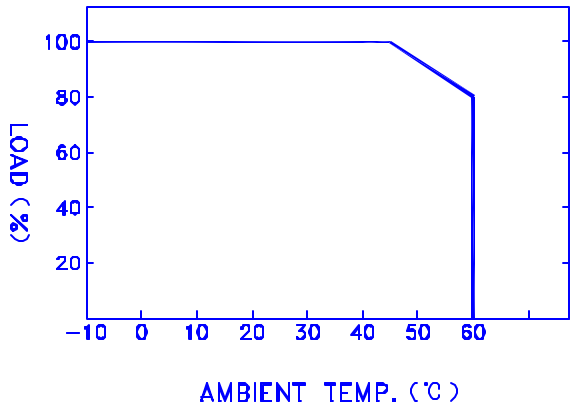
2002-09-23

NEXT (MECHANICAL INFO)

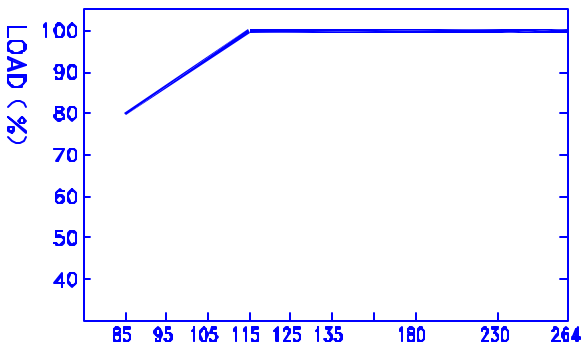
BLOCK DIAGRAM



OUTPUT DERATING VS Ta



OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)

- CASE : 919C
- I/P TERMINAL TB1 PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
- O/P TERMINAL TB2 PIN NO. ASSIGNMENT
  - PIN 1,2 : +V1
  - PIN 3,4,5 : COM(V1 AND V2)
  - PIN 6 : +V2
  - PIN 7 : +V3
  - PIN 8 : -V3
  - PIN 9 : +V4
  - PIN 10 : -V4
- CONNECTOR CN62 PIN NO. ASSIGNMENT
  - JST S6B-XH Uses XHP-6 Housing
  - PIN 1 : PF(POWER GOOD/FAIL SIGNAL)
  - PIN 2 : GND
  - PIN 3 : RS-
  - PIN 4 : RS+
  - PIN 5 : RC-
  - PIN 6 : RC+